

Recombinant Human CDC7 293 Cell Lysate

Cat. No. CDC7-7646HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cell division cycle 7 homolog (<i>S. cerevisiae</i>) (CDC7), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name CDC7 cell division cycle 7 homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol CDC7

Synonyms CDC7; cell division cycle 7 homolog (*S. cerevisiae*); CDC7 (cell division cycle 7, *S. cerevisiae*, homolog) like 1 , CDC7 cell division cycle 7 (*S. cerevisiae*) , CDC7L1, cell division cycle 7 (*S. cerevisiae*); cell division cycle 7-related protein kinase; HsCdc7; Hsk1; huCdc7; CDC7-related kinase; cell division cycle 7-like protein 1; CDC7 (cell division cycle 7, *S. cerevisiae*, homolog)-like 1; CDC7L1; HsCDC7; huCDC7; MGC117361; MGC126237; MGC126238;

Gene ID 8317

mRNA Refseq NM_001134419

Protein Refseq NP_001127891

MIM 603311

UniProt ID O00311

Chromosome Location 1p22

Pathway Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem;

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Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;

Function

ATP binding; kinase activity; metal ion binding; nucleotide binding; protein serine/threonine kinase activity;

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